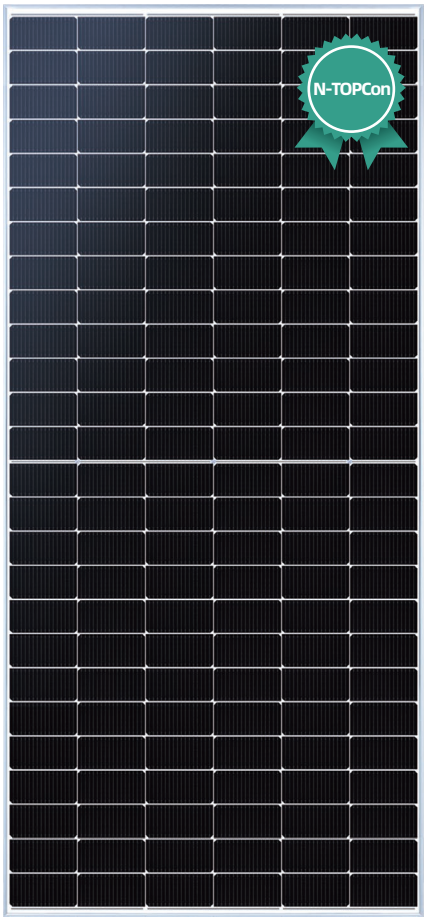
PHONO SOLOMON



630-650w

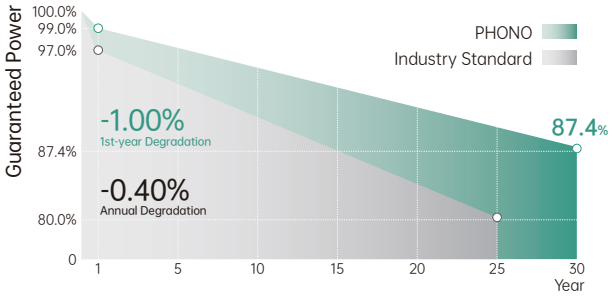
Draco Module Series

N-TOPCON HIGH EFFICIENCY 156-16BB-W-WG

Bloomberg NEW ENERGY FINANCE Tier 1 TOP PERFORMER 2024 kiwa PVEL PV MODULE RELIABILITY SCORECARD

Extraordinary Product Performance

- Up to 30% additional power yield benefited from bifacial technology and over 80% cell bifaciality
- Competitive high-temperature performance with ameliorated temperature coefficient
- Better weak illumination response, higher power generation with N-TOPCon technology



15-year
Product Warranty

30-year
Linear Performance Warranty

Higher Quality Reliability

- N-type with lower LID and LeTID
- Industry-leading cell processing technology and dual glass contributes to excellent anti-PID characteristic
- First-year degradation is less than 1.0%, with linear degradation of 0.4% per year for 30 years

Wider Application Conditions

- BIPV, vertical installation, snowfield, high-humid area, windy and dusty area
- Safer and easier handling during transportation and installation

MANAGEMENT SYSTEM CERTIFICATES

IEC 61215, IEC 61730

ISO 9001
2015 / Quality management system

ISO 14001
2015 / Standards for environmental management system

ISO 45001
2018 / International standards for occupational health & safety

www.phonosolar.com / info@phonosolar.com

Electrical Typical Values

Model	1000V	PS630M8GF-26/RNH		PS635M8GF-26/RNH		PS640M8GF-26/RNH		PS645M8GF-26/RNH		PS650M8GF-26/RNH	
	1500V	PS630M8GFH-26/RNH		PS635M8GFH-26/RNH		PS640M8GFH-26/RNH		PS645M8GFH-26/RNH		PS650M8GFH-26/RNH	
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)		630	482	635	486	640	490	645	494	650	498
Rated Current (Impp)		12.90	10.39	12.96	10.44	13.02	10.49	13.08	10.53	13.14	10.58
Rated Voltage (Vmpp)		48.84	46.43	49.00	46.58	49.16	46.73	49.32	46.88	49.47	47.03
Short Circuit Current (Isc)		13.62	10.97	13.68	11.02	13.75	11.07	13.82	11.13	13.89	11.19
Open Circuit Voltage (Voc)		57.15	54.72	57.31	54.87	57.47	55.03	57.63	55.18	57.78	55.32
Module Efficiency (%)		22.54		22.72		22.90		23.07		23.25	

STC (Standard Testing Conditions): Irradiance 1000W/m², AM 1.5, Cell Temerature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

BNPI

Maximum Power (Pmax)	694	699	705	710	716
Optimum Operating Current (Impp)	14.21	14.27	14.35	14.40	14.48
Optimum Operating Voltage (Vmpp)	48.84	49.00	49.16	49.32	49.47
Short Circuit Current (Isc)	15.00	15.07	15.16	15.22	15.30
Open Circuit Voltage (Voc)	57.15	57.31	57.47	57.63	57.78

BNPI:Front side irradiation 1000W/m², back side reflection irradiation 135W/m² , AM 1.5, ambient temperature 25°C

Mechanical Characteristics

Cell Type	N Type Monocrystalline
Dimension (L × W × H)	Length: 2465mm (97.05 inch) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch)
Weight	35.0kg (77.16 lbs)
Glass	2.0mm/2.0mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	4mm² (IEC), (+): 350mm,(-): 250mm or Customized Length

Temperature Ratings

Voltage Temperature Coefficient	-0.25%/°C
Current Temperature Coefficient	+0.04%/°C
Power Temperature Coefficient	-0.29%/°C
Power Tolerance	0~+3%
NOCT	42±2°C
Bifaciality	80±5%

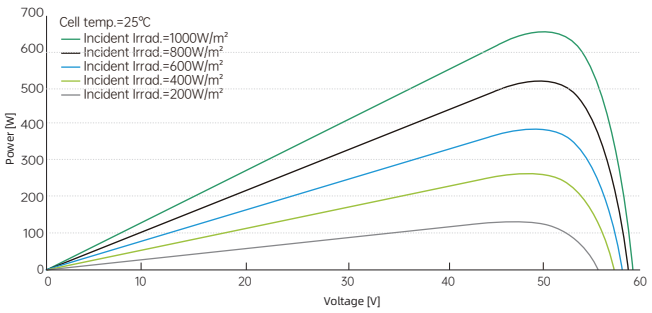
Absolute Maximum Rating

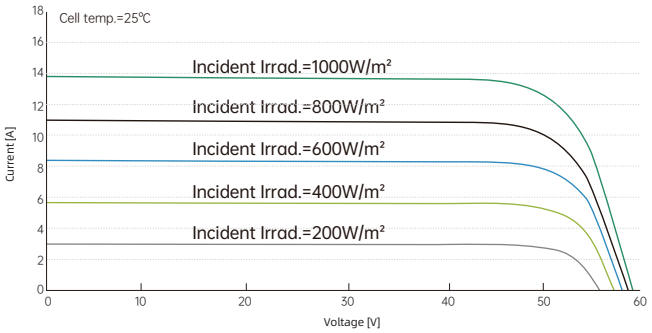
Operating Temperature	From -40 to + 85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	30A
PV Module Classification	II
Fire Rating (IEC61730)	C
Maximum System Voltage	DC 1000V/1500V

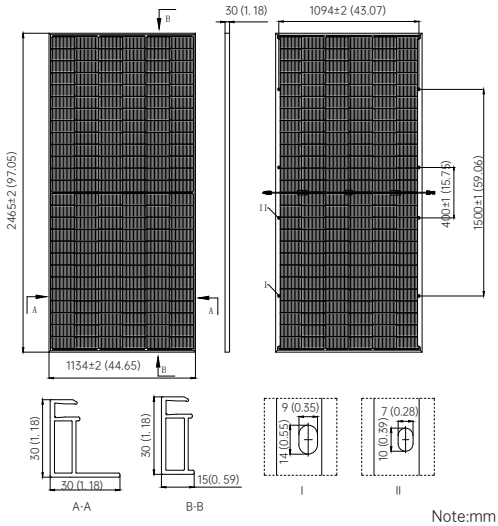
Packing Configuration

Container	40' HQ
Pieces/Container	576
Pcs/Pallet	36
Pallets/Container	16

Electrical Characteristics







Note:mm (inch)